

CLAIMS

What is claimed is:

1. An illustration system for capturing images to provide a standardized procedure for production using a computer-controlled machine, comprising of:

an image capturing software which means a program integrated on the navigator software, said program provides a graphic user interface on the monitor of a machine computer, said image capturing software contains different dialogue boxes to display images;

a navigator software which means a program executed by said machine computer, said program provides a graphics user interface on said monitor on said machine computer;

an image device for transmitting image information to said image capturing interface for display on said monitor on said machine computer by connecting to said navigator software;

a control system means a device that communicate between said computer-controlled machine and said navigator software of said machine computer.

2. The illustration system according to claim 1 wherein said image capturing software connects to said image device via said navigator software which is able to:

receive, continuously, images and then display them on dialogue box 1, which provides a monitoring of motion activity;

display captured images on the dialogue box 2 by clicking on a snap button to capture an image from said dialogue box 1;

accept additional clicks on said snap button to capture new images which replace the previous images and are displayed on said dialogue box 2;

point to said captured image on said dialogue box 2 then pressing down the mouse button of said machine computer to drag and drop said captured image to the dialogue box 3 of said navigator software.

3. The illustration system according to claim 1 wherein said navigator software means said program of:

integrating with said image capturing software;

linking with server interface via a network;

receiving/outputting information from/to said control system.

4. The illustration system according to claim 1 wherein said navigator software is able to:

receive captured image that is dragged from said image capturing interface as a part of program event that is displayed on said dialogue box 3 of said navigator software;

importing an image file from storage with an image file format then is displayed in said dialogue box 3 as a part of a program event;

program a list of the ordered events with a set of program commands that programmed from the user;

run a program event with images, said program events is programmed by the user;

5. The illustration system according to claim 4 wherein said program event means utilizing a set of program commands to ordering a list of operating on said computer-controlled machine, which means programmed job.

6. The illustration system according to claim 3 wherein said server interface means said program provides a graphic user interface on the monitor of the server computer to monitoring and control said computer-controlled machine operation via a network, comprising of steps:

(a) said image device is connected to said image capturing software through said navigator software to transmit image to said dialogue box 1 of said motion activity;

(b) said navigator software running said programmed job which automatically connects to said server computer, if said server computer is powered off or said network is unplugged, then said navigator software automatically detects the connection on every pre-set time frame until a connection is established;

(c) said machine computer and said server computer are connected and information is transmitted from said navigator software to the server computer; said information means positioning values, machine information, said captured images and voice warnings.

- (d) said machine computer and said server computer is connected, said motion activity is transmitted from said image capturing software;
- (e) controlling of computer-controlled machine by clicking on a command button on said server interface that sends a signal to said machine computer then to the control system.

7. The illustration system according to claim 6 wherein said server computer means the ability to establish connections to one or more machine computers which can accept information for one or more computers. This includes the ability to monitor and control one or more machine computers remotely via a network.

8. The illustration system according to claim 6 (c) said voice warning comprising of:

text information that is sent by said machine computer to process the command; any value of labelled devices that reaches the threshold value, said machine computer sends a voice warning.

9. The illustration system according to claim 1 wherein said image device means a digital camera with a housing that includes moveable arm that can bend and turn in different directions and stand with a permanent magnetic base which can form a magnetic relationship with the surface of said computer-controlled machine.

10. The illustration system according to claim 1 wherein said control system having at least of one pair of MCUs (micro control units) for receiving position signal from measuring device and outputting the signal to the motor control movement on one axis. A PLD (programmable logic device) organizes all imputing and outputting signals and commands from/to said MCUs, said navigator software, said computer-controlled machine and said machine computer.

11. The illustration system according to claim 9 wherein said one axis means one direction either of longitude, latitude or altitude or relative to the machine movement.